

# United States Patent and Trademark Office



UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/625,470	470 07/23/2003		Masatoshi Fukuyama	088473-0139 9884	
22428	7590	06/16/2006		EXAMINER	
FOLEY AT	ND LARI	ONER LLP	JOYCE, WILLIAM C		
3000 K STR	EET NW		ART UNIT	PAPER NUMBER	
WASHING		20007		3682	

DATE MAILED: 06/16/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)					
		10/625,470	FUKUYAMA ET AL.					
	Office Action Summary	Examiner	Art Unit					
		William C. Joyce	3682					
Period fo	The MAILING DATE of this communication ap or Reply	pears on the cover sheet with t	he correspondence address	;				
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLICHEVER IS LONGER, FROM THE MAILING DISTRICTION OF THE MAILING DISTRI	DATE OF THIS COMMUNICAT 136(a). In no event, however, may a reply will apply and will expire SIX (6) MONTHS e. cause the application to become ABAND	TION. De timely filed  from the mailing date of this communic ONED (35 U.S.C. § 133)					
Status								
1)	Responsive to communication(s) filed on 31 M	March 2006.						
	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.							
3)[	, · · · · · · · · · · · · · · · · ·							
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposit	ion of Claims							
4)⊠	Claim(s) 1-12 is/are pending in the application	1.						
	4a) Of the above claim(s) <u>8-10</u> is/are withdrawn from consideration.							
5)	Claim(s) is/are allowed.							
6)⊠	Claim(s) <u>1-5</u> is/are rejected.							
7)🖾	Claim(s) 6,7,11 and 12 is/are objected to.							
8)□	8) Claim(s) are subject to restriction and/or election requirement.							
Applicati	on Papers							
9)	The specification is objected to by the Examine	er.						
	The drawing(s) filed on is/are: a) ☐ acc		he Examiner.					
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11)	The oath or declaration is objected to by the E	xaminer. Note the attached Of	fice Action or form PTO-15	2.				
Priority ι	ınder 35 U.S.C. § 119							
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a)⊠ All b)□ Some * c)□ None of:								
	1. Certified copies of the priority documents have been received.							
	<ul><li>2. Certified copies of the priority documen</li><li>3. Copies of the certified copies of the priority</li></ul>			_				
			sived in this National Stage	3				
* 5	application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.							
				·				
Attachmen	t(s)							
1) Notice	e of References Cited (PTO-892)	4) 🔲 Interview Sumn	nary (PTO-413)					
2)   Notic	e of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Ma						
Pape	Notice of Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)       5) □ Notice of Informal Patent Application (PTO-152)         Paper No(s)/Mail Date □ □ □       6) □ Other: □ □ □							

#### **DETAILED ACTION**

This is the First Office Action in response to the Election filed in connection with the above identified patent.

#### Election/Restrictions

1. Claims 8-10 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected species, there being no allowable generic or linking claim. Election was made **without** traverse in the reply filed on March 31, 2006.

### **Priority**

2. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

## Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1-5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Japanese reference 11-101321 (JP '321) in view of Japanese reference 04-028268 (JP '268).

JP '321 discloses a toroidal continuously variable transmission comprising: an input disk (18A, 20A) to which rotation of a prime mover is transmitted; an output disk 18B,20B) coaxially arranged with and opposed to the input disk, the output disk adapted to have a driving connection with and to have a driven connection with a road wheel; a power roller (18C,20C) interposed between the input and output disks under axial preload for power transmission; a trunnion (50A,52A,54A,56A) rotatably supporting the power roller to permit a tilting motion of the power roller about a trunnion axis perpendicular to a rotation axis of the power roller for ratio changing; a hydraulic servo mechanism connected to the trunnion to move the trunnion in a direction of the trunnion axis so as to cause the tilting motion of the power roller by creating an offset of the trunnion from a neutral position in the direction of the trunnion axis, the neutral position being a non-ratio-changing position at which the rotation axis of the power roller intersects a common rotation axis of the input and output disks; a primary oil pump (84) driven by the prime mover to produce a hydraulic pressure.

JP' 321 does not disclose a secondary oil pump driven in response to rotation of the road wheel to produce a hydraulic pressure, but discloses the problem of oil supply shortage from the engine driven oil pump when the engine is stopped at the time the vehicle is being towed. The prior art to JP '268 teaches a variable transmission having a secondary oil pump (41) driven with rotation of the vehicle wheels for generating hydraulic pressure when the primary oil pump fails to produce oil pressure due to the vehicle engine being

stopped, wherein the secondary oil pump is kept inoperative while the prime mover is operating. It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the continuously variable transmission of JP '321 with a secondary oil pump that is inoperative while the prime mover is operating, as taught by JP '268, motivation being to supply oil pressure to the transmission components while the vehicle is towed.

### Allowable Subject Matter

5. Claims 6-7 and 11-12 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

#### Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Note the transmission of Miller ('036) having a primary and secondary oil pump.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to William C. Joyce whose telephone number is (571) 272-7107. The examiner can normally be reached on Monday - Thursday 7:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Ridley can be reached on (571) 272-6917. The

fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

William C. Joyce 6/8/06